CPSC 421/501

- Myhill - Nerode

- {onin} is nonregular

- Implication:

(intersect with regular language 0*1*)

- Myhill-Heroda

- Min DEA for L = 23 at

" " L= a²³ a* v { a°, a', a⁵ }

Breakout Roam Problems:

- (1) Show that L={Bn2 [nEZ] is
- (2) Show that $L = \{0^n | m \mid n, m \in \mathbb{Z} \}$ is non-regular
- 3) Show that

 L= { w \(\xi \xi \alpha \) \\
 \tag{\text{has the same}} \\
 \text{number of a's} \\
 \text{as b's}

is non-regular

4) If w= T,...Tk, then wreverse=Tk...T,
e.g. (abb) rev = bba

Show that

PALINDROME = { W \ \{\alpha,b\}^* \ | \w = \w^{rev} \}

Is non-regular.

(5) Give a DFA with the few possible states accepting (aab, ab)*:

(5a) Give the DFA

(Sb) Use Myhill-Nerode to prove that your DFA has the fewest possible states.